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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Wed Jun 13 14:06:48 EDT 2007

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Application No: 10760085 Version No: 2.1

**Input Set:****Output Set:**

**Started:** 2007-06-13 14:06:31.746  
**Finished:** 2007-06-13 14:06:34.195  
**Elapsed:** 0 hr(s) 0 min(s) 2 sec(s) 449 ms  
**Total Warnings:** 9  
**Total Errors:** 40  
**No. of SeqIDs Defined:** 158  
**Actual SeqID Count:** 158

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (7)
E 257	Invalid sequence data feature in <221> in SEQ ID (7)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)
E 257	Invalid sequence data feature in <221> in SEQ ID (13)
E 257	Invalid sequence data feature in <221> in SEQ ID (26)
E 257	Invalid sequence data feature in <221> in SEQ ID (27)
E 257	Invalid sequence data feature in <221> in SEQ ID (29)
E 257	Invalid sequence data feature in <221> in SEQ ID (29)
E 257	Invalid sequence data feature in <221> in SEQ ID (48)
E 257	Invalid sequence data feature in <221> in SEQ ID (48)
E 257	Invalid sequence data feature in <221> in SEQ ID (52)
E 330	Invalid protein , found in SEQID(54) POS (1)Invalid Protein:Asx
E 257	Invalid sequence data feature in <221> in SEQ ID (58)
E 257	Invalid sequence data feature in <221> in SEQ ID (79)
E 257	Invalid sequence data feature in <221> in SEQ ID (83)
E 257	Invalid sequence data feature in <221> in SEQ ID (83)
E 257	Invalid sequence data feature in <221> in SEQ ID (90)
E 257	Invalid sequence data feature in <221> in SEQ ID (90)
E 257	Invalid sequence data feature in <221> in SEQ ID (93)

**Input Set:**

**Output Set:**

**Started:** 2007-06-13 14:06:31.746  
**Finished:** 2007-06-13 14:06:34.195  
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**Total Warnings:** 9  
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**No. of SeqIDs Defined:** 158  
**Actual SeqID Count:** 158

Error code	Error Description
E 257	Invalid sequence data feature in <221> in SEQ ID (98) This error has occurred more than 20 times, will not be displayed
E 341	'Xaa' position not defined SEQID (119) POS (1)
E 341	'Xaa' position not defined SEQID (119) POS (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (150)
W 213	Artificial or Unknown found in <213> in SEQ ID (151)
W 213	Artificial or Unknown found in <213> in SEQ ID (152)
W 213	Artificial or Unknown found in <213> in SEQ ID (153)
W 213	Artificial or Unknown found in <213> in SEQ ID (154)
W 213	Artificial or Unknown found in <213> in SEQ ID (155)
W 213	Artificial or Unknown found in <213> in SEQ ID (156)
W 213	Artificial or Unknown found in <213> in SEQ ID (157)
W 213	Artificial or Unknown found in <213> in SEQ ID (158)

## SEQUENCE LISTING

```
<110> Hubert Koster
      Daniel Paul Little
      Suhaib Mahmood Siddiqi
      Matthew Peter Grealish
      Subramaniam Marappan
      Chester Frederick Hassman III
      Ping Yip
```

# <120> Capture Compounds, Collections Thereof And Methods For Analyzing The Proteome And Complex Compositions

<130> 21121-009001/2309

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<140>      10/760,085
<141>      2004-01-16
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<150> 60/441,398
<151> 2003-01-16
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<160> 158

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<170> FastSEQ for Windows Version 4.0
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<211> 39
<212> PRT
<213> Homo Sapien
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Arg Arg Pro Val Lys Val Tyr Pro Asn Gly Ala Glu Asp Glu Ser Ala
      20             25             30
Glu Ala Phe Pro Leu Glu Phe
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<210> 2
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<212> PRT
<213> Homo Sapien
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      20             25             30
Phe Thr Asp Lys Asp Lys Asp Asn Val Ala Pro Arg Ser Lys Ile Ser
      35             40             45
Pro Gln Gly Tyr
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<210> 3  
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<213> Homo Sapien

<400> 3  
Ala Pro Ser Gly Ala Gln Arg Leu Tyr Gly Phe Gly Leu  
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<210> 4  
<211> 13  
<212> PRT  
<213> Homo Sapien

<400> 4  
Trp Gly Lys Pro Val Ser Tyr Ser Met Glu His Phe Arg  
1 5 10

<210> 5  
<211> 9  
<212> PRT  
<213> Homo Sapien

<400> 5  
Ala Pro Arg Glu Arg Phe Tyr Ser Glu  
1 5

<210> 6  
<211> 10  
<212> PRT  
<213> Homo Sapien

<400> 6  
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1 5 10

<210> 7  
<211> 14  
<212> PRT  
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<220>  
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<223> AMIDATION

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Glu Gly Arg Leu Gly Thr Gln Trp Ala Val Gly His Leu Met  
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<210> 8  
<211> 37  
<212> PRT  
<213> Homo Sapien

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Lys Cys Asn Thr Ala Thr Cys Ala Thr Asn Arg Leu Ala Asn Phe Leu  
1 5 10 15  
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20 25 30  
Gly Ser Asn Thr Tyr  
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<211> 10  
<212> PRT  
<213> Homo Sapien

<400> 9  
Asp Arg Val Tyr Ile His Pro Phe His Leu  
1 5 10

<210> 10  
<211> 8  
<212> PRT  
<213> Homo Sapien

<400> 10  
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1 5

<210> 11  
<211> 7  
<212> PRT  
<213> Homo Sapien

<400> 11  
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<210> 12  
<211> 13  
<212> PRT  
<213> Homo Sapien

<400> 12  
Asn Arg Pro Arg Leu Ser His Leu Gly Pro Met Pro Phe  
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<210> 13  
<211> 29  
<212> PRT  
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<220>  
<221> MOD\_RES  
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<223> Xaa is D-Phe

<220>  
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<222> 10  
<223> Nle

<220>  
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<222> 26  
<223> Nle

<400> 13  
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1 5 10 15  
Ala Gln Glu Ala His Lys Asn Arg Leu Leu Glu Ile Ile  
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<210> 14  
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<212> PRT  
<213> Homo Sapien

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1 5 10 15  
Ala Gln Ser Gly Leu Gly Cys Asn Ser Phe Arg Tyr  
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<210> 15  
<211> 13  
<212> PRT  
<213> Homo Sapien

<400> 15  
Lys Lys Ala Leu Arg Arg Gln Glu Thr Val Asp Ala Leu  
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<210> 16  
<211> 12  
<212> PRT  
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<400> 16  
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu

1 5 10

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<211> 14  
<212> PRT  
<213> Homo Sapien

<400> 17  
Tyr Gly Gly Phe Met Arg Arg Val Gly Arg Pro Glu Trp Trp  
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<210> 18  
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<400> 18  
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1 5 10

<210> 19  
<211> 31  
<212> PRT  
<213> Homo Sapien

<400> 19  
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<211> 22  
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<213> Homo Sapien

<400> 20  
Ala Glu Lys Lys Asp Glu Gly Pro Tyr Arg Met Glu His Phe Arg Trp  
1 5 10 15  
Gly Ser Pro Pro Lys Asp  
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<210> 21  
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<212> PRT  
<213> Homo Sapien

<400> 21  
Tyr Gly Gly Phe Leu Arg Lys Tyr Pro  
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<210> 22  
<211> 43  
<212> PRT  
<213> Homo Sapien

<400> 22  
Asp Ala Glu Phe Arg His Ala Ser Gly Tyr Glu Val His His Gln Lys  
1 5 10 15  
Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Leu Gly Ala Ile Ile  
20 25 30  
Gly Leu Met Val Gly Gly Val Val Ile Ala Thr  
35 40

<210> 23  
<211> 5  
<212> PRT  
<213> Homo Sapien

<400> 23  
Arg Leu Arg Phe His  
1 5

<210> 24  
<211> 32  
<212> PRT  
<213> Homo Sapien

<400> 24  
Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp  
1 5 10 15  
Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His  
20 25 30

<210> 25  
<211> 9  
<212> PRT  
<213> Homo Sapien

<400> 25  
Arg Pro Pro Gly Phe Ser Pro Phe Arg  
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<210> 26  
<211> 11  
<212> PRT  
<213> Homo Sapien

<220>  
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<222> 11  
<223> AMIDATION

<400> 26

Gly Met Asp Ser Leu Ala Phe Ser Gly Gly Leu  
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<210> 27  
<211> 3  
<212> PRT  
<213> Homo Sapien

<220>  
<221> MOD\_RES  
<222> 3  
<223> AMIDATION

<400> 27  
Lys His Gly  
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<210> 28  
<211> 11  
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<213> Homo Sapien

<400> 28  
Ala Ser Lys Lys Pro Lys Arg Asn Ile Lys Ala  
1 5 10

<210> 29  
<211> 10  
<212> PRT  
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<220>  
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<400> 29  
Glu Gln Asp Tyr Thr Gly Trp Met Asp Phe  
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<210> 30  
<211> 28  
<212> PRT  
<213> Homo Sapien

<400> 30  
Ala Ile Pro Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile  
1 5 10 15

Asn Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro  
20 25

<210> 31  
<211> 32  
<212> PRT  
<213> Homo Sapien

<400> 31  
Cys Gly Asn Leu Ser Thr Cys Met Leu Gly Thr Tyr Thr Gln Asp Phe  
1 5 10 15  
Asn Lys Phe His Thr Phe Pro Gln Thr Ala Ile Gly Val Gly Ala Pro  
20 25 30

<210> 32  
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<212> PRT  
<213> Homo Sapien

<400> 32  
Asp Pro Met Ser Ser Thr Tyr Ile Glu Glu Leu Gly Lys Arg Glu Val  
1 5 10 15  
Thr Ile Pro Pro Lys Tyr Arg Glu Leu Leu Ala  
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<210> 33  
<211> 25  
<212> PRT  
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<400> 33  
Asn Gln Gly Arg His Phe Cys Gly Gly Ala Glu Ile His Ala Arg Phe  
1 5 10 15  
Val Met Thr Ala Ala Ser Cys Phe Asn  
20 25

<210> 34  
<211> 30  
<212> PRT  
<213> Homo Sapien

<400> 34  
Asn Pro Met Tyr Asn Ala Val Ser Asn Ala Asp Leu Met Asp Phe Lys  
1 5 10 15  
Asn Leu Leu Asp His Leu Glu Glu Lys Met Pro Leu Glu Asp  
20 25 30

<210> 35  
<211> 18  
<212> PRT  
<213> Homo Sapien

<400> 35  
Cys Asn Leu Ala Val Ala Ala Ala Ser His Ile Tyr Gln Asn Gln Phe  
1 5 10 15  
Val Gln

<210> 36  
<211> 35  
<212> PRT  
<213> Homo Sapien

<400> 36  
Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg  
1 5 10 15  
Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala  
20 25 30  
Lys Ala Leu  
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<210> 37  
<211> 16  
<212> PRT  
<213> Homo Sapien

<400> 37  
Ser Gly Ser Ala Lys Val Ala Phe Ser Ala Ile Arg Ser Thr Asn His  
1 5 10 15

<210> 38  
<211> 37  
<212> PRT  
<213> Homo Sapien

<400> 38  
Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15  
Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val  
20 25 30  
Gly Ser Lys Ala Phe  
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<210> 39  
<211> 37  
<212> PRT  
<213> Homo Sapien

<400> 39  
Ala Cys Asn Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu  
1 5 10 15  
Ser Arg Ser Gly Gly Met Val Lys Ser Asn Phe Val Pro Thr Asn Val  
20 25 30  
Gly Ser Lys Ala Phe  
35

<210> 40  
<211> 17  
<212> PRT  
<213> Homo Sapien

<400> 40  
Leu Gln Asn Arg Arg Gly Leu Asp Leu Leu Phe Leu Lys Glu Gly Gly  
1 5 10 15  
Leu

<210> 41  
<211> 29  
<212> PRT  
<213> Homo Sapien

<400> 41  
Gln Glu Gly Ala Pro Pro Gln Gln Ser Ala Arg Arg Asp Arg Met Pro  
1 5 10 15  
Cys Arg Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys  
20 25

<210> 42  
<211> 2  
<212> PRT  
<213> Homo Sapien

<400> 42  
Trp Gly  
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<210> 43  
<211> 30  
<212> PRT  
<213> Homo Sapien

<400> 43  
Ala Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr  
1 5 10 15  
Gly Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys  
20 25 30

<210> 44  
<211> 29  
<212> PRT  
<213> Homo Sapien

<400> 44  
Cys Tyr Cys Arg Ile Pro Ala Cys Ile Ala Gly Glu Arg Arg Tyr Gly  
1 5 10 15  
Thr Cys Ile Tyr Gln Gly Arg Leu Trp Ala Phe Cys Cys

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25

<210> 45

<211> 33

<212> PRT

<213> Homo Sapien

<400> 45

Ala Leu Trp Lys Thr Met Leu Lys Lys Leu Gly Thr Met Ala Leu His  
1 5 10 15  
Ala Gly Lys Ala Ala Leu Gly Ala Ala Ala Asp Thr Ile Ser Gln Thr  
20 25 30  
Gln

<210> 46

<211> 17

<212> PRT

<213> Homo Sapien

<400> 46

Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
1 5 10 15  
Gln

<210> 47

<211> 13

<212> PRT

<213> Homo Sapien

<400> 47

Tyr Gly Gly Phe Leu Arg Arg Gln Phe Lys Val Val Thr  
1 5 10

<210> 48

<211> 11

<212> PRT

<213> Homo Sapien

<220>

<221> MOD\_RES

<222> 11

<223> AMIDATION

<220>

<221> MOD\_RES

<222> 1

<223> PYRROLIDONE CARBOXYLIC ACID

<400> 48

Glu Pro Ser Lys Asp Ala Phe Ile Gly Leu Met  
1 5 10

<210> 49  
<211> 4  
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<213> Homo Sapien

<400> 49  
Tyr Pro Trp Phe  
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<210> 50  
<211> 4  
<212> PRT  
<213> Homo Sapien

<400> 50  
Tyr Pro Phe Phe  
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<210> 51  
<211> 21  
<212> PRT  
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<400> 51  
Cys Ser Cys Ser Ser Leu Met Asp Lys Glu Cys Val Tyr Phe Cys His  
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<210> 52  
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<212> PRT  
<213> Homo Sapien

<220>  
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<222> 39  
<223> AMIDATION

<400> 52  
His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
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20 25 30  
Ser Gly Ala Pro Pro Pro Ser  
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<210> 53  
<211> 17  
<212> PRT  
<213> Homo Sapien

<400> 53  
Ala Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val  
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Arg

<210> 54  
<211> 15  
<212> PRT  
<213> Homo Sapien

<400> 54  
Asx Gln Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala Arg  
1 5 10 15

<210> 55  
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<212> PRT  
<213> Homo Sapien

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Glu Ile Leu Asp Val Pro Ser Thr  
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<210> 56  
<211> 4  
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<213> Homo Sapien

<400> 56  
Phe Met Arg Phe  
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<210> 57  
<211> 30  
<212> PRT  
<213> Homo Sapien

<400> 57  
Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro His Ala Val  
1 5 10 15  
Gly Asn His Arg Ser Phe Ser Asp Lys Asn Gly Leu Thr Ser  
20 25 30

<210> 58  
<211> 20  
<212> PRT  
<213> Homo Sapien

<220>  
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<222> 20  
<223> AMIDATION

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1 5 10 15  
Phe Gly Leu Met  
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<210> 59  
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<212> PRT  
<213> Homo Sapien

<400> 59  
Arg Leu Arg Phe Asp  
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<210> 60  
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<212> PRT  
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1 5 10 15  
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<210> 61  
<211> 27  
<212> PRT  
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<400> 61  
Val Pro Leu Pro Ala Gly Gly Gly Thr Val Leu Thr Lys Met Tyr Pro  
1 5 10 15  
Arg Gly Asn His Trp Ala Val Gly His Leu Met  
20 25

<210> 62  
<211> 28  
<212> PRT  
<213> Homo Sapien

<400> 62  
Gly Ser Ser Phe Leu Ser Pro Glu His Gln Arg Val Gln Gln Arg Lys  
1 5 10 15  
Glu Ser Lys Lys Pro Pro Ala Lys Leu Gln Pro Arg  
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<210> 63

Gly Trp Thr Leu Asn Ser Ala Gly Tyr Leu Leu Gly Pro Gln Gln Phe

<211> 42  
<212> PRT  
<213> Homo Sapien

<400> 63  
Tyr Ala Glu Gly Thr Phe Ile Ser Asp Tyr Ser Ile Ala Met Asp Lys  
1 5 10 15  
Ile His Gln Gln Asp Phe Val Asn Trp Leu Leu Ala Gln Lys Gly Lys  
20 25 30  
Lys Asn Asp Trp Lys His Asn Ile Thr Gln  
35 40

<210> 64  
<211> 29  
<212> PRT  
<213> Homo Sapien

<400> 64  
His Ser Gln Gly Thr Phe Thr Ser Asp Tyr Ser Lys Tyr Leu Asp Ser  
1 5 10 15  
Arg Arg Ala Gln Asp Phe Val Asp Trp Leu Met Asn Thr  
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<210> 65  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 65  
Arg Arg Phe Ala Cys Asp Pro Asp Gly Tyr Asp Asn Tyr Phe His Cys  
1 5 10 15  
Val Pro Gly Gly  
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<210> 66  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 66  
Thr Gly Ser Trp Cys Gly Leu Met His Tyr Asp Asn Ala Trp Leu Cys  
1 5 10 15  
Asn Thr Gln Gly  
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<210> 67  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 67  
Arg Ser Lys Trp Cys Arg Asp Gly Tyr Tyr Ala Asn Tyr Pro Gln Cys  
1 5 10 15

Trp Thr Gln Gly  
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<210> 68  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 68  
Arg Ser Thr Leu Cys Trp Phe Glu Gly Tyr Asp Asn Thr Phe Pro Cys  
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Lys Tyr Phe Arg  
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<210> 69  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 69  
Arg Val Gln Glu Cys Lys Tyr Leu Tyr Tyr Asp Asn Asp Tyr Leu Cys  
1 5 10 15  
Lys Asp Asp Gly  
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<212> PRT  
<213> Homo Sapien

<400> 70  
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Asn Ile His Glu  
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<210> 71  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 71  
Lys Leu Phe Trp Cys Thr Tyr Glu Asp Tyr Ala Asn Glu Trp Pro Cys  
1 5 10 15  
Pro Gly Tyr Ser  
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<210> 72  
<211> 20  
<212> PRT  
<213> Homo Sapien

<400> 72

Phe Cys Ala Val Cys Asn Glu Glu Leu Tyr Glu Asn Cys Gl